AMENDMENT UNDER 37 C.F.R. § 1.111 U.S. Application No. 10/585,863 (Q95957)

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- (Currently Amended) A variant of the Moloney murine leukemia virus reverse
 transcriptase of SEQ ID NO:2, except having wherein the amino acid X at position 84 is amino
 acid X, which is an amino acid with a side chain shorter than that of glutamine.
- (Currently Amended) The reverse transcriptase of claim 1, except having wherein
 the amino acid asparagine at position 524 is replaced with the amino acid aspartic acid.
- (Previously Presented) The reverse transcriptase of claim 1, wherein the amino acid X is alanine, serine, aspartic acid or asparagine.
- (Original) The reverse transcriptase of claim 3, wherein the amino acid X is alanine.
- (Withdrawn) A nucleic acid molecule encoding the reverse transcriptase of claim 1.

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- (Withdrawn) A method for expressing a recombinant murine leukemia virus
 (MLV) reverse transcriptase, said method comprising the steps of:
- a) transforming an expression vector carrying the coding sequence of said reverse transcriptase into E. coli;
 - b) selecting positive clones that express said reverse transcriptase; and
 - c) culturing said positive clones to express said reverse transcriptase.

wherein said reverse transcriptase is a variant of MLV reverse transcriptase of SEQ ID NO:2, wherein the amino acid at position 84 is amino acid X, which is an amino acid with side chain shorter than that of glutamine.

- (Withdrawn) The method of claim 6, wherein the amino acid asparagine at position 524 is replaced with aspartic acid.
 - 8. (Withdrawn) The method of claim 7, wherein the amino acid X is alanine.
- (Withdrawn) The method of claim 8, wherein said reverse transcriptase is expressed by the expression plasmid having the sequence according to SEQ ID NO:1.
 - 10. (Withdrawn) The methods of claim 6, wherein said E, coli strain is BL21.
 - 11. (Withdrawn) The methods of claim 7, wherein said E. coli strain is BL21.
 - 12. (Withdrawn) The methods of claim 8, wherein said E. coli strain is BL21.

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- (Cancelled).
- (Previously Presented) The reverse transcriptase of claim 2, wherein the amino acid X is alanine, serine, aspartic acid, or asparagine.
- (Previously Presented) The reverse transcriptase of claim 14, wherein the amino acid is alanine.
- 16. (Currently Amended) A variant of the wild type Moloney murine leukemia virus reverse transcriptase, wherein said wild type Moloney murine leukemia virus reverse transcriptase has the amino acid sequence of SEQ ID NO:9, except having wherein said variant has anthe amino acid mutation at position 84 such that the glutamine is replaced with amino acid X, wherein said amino acid X is an amino acid with side chain shorter than that of glutamine.